

TECHNICAL ACTION

31

PSC 118 JMW  
184

REQUEST (31) RS-6A

2. Date

May 27, 1954

25X1

|   |                                      |
|---|--------------------------------------|
| 4. Contractor   | 5. Address                           |
| 6. Sub-Contractor   | 7. Address                           |
| 8. Equipment<br>RS-6A   | 9. Quantity Affected<br>All          |
| 10 Purpose  |                                      |
| <input checked="" type="checkbox"/> Deviation Approval <input type="checkbox"/> Interpretation <input type="checkbox"/> Information <input type="checkbox"/> Recommendation |                                      |
| 11. Approval will affect,   |                                      |
| No Price (Increase-Decrease)  | No Delivery    No Interchangeability |

## ACTION I

SUBJECT: Review of pilot run of 25 equipments RS-6A.

ORIGINAL CL BY 235979

☐ DECL ☒ REVW ON 2010

EXT BYND 6 YRS BY same

REASON 3d(3)

1. This TAR is initiated to permit [ ] to commence RS-6A production without any interruption to his production line facilities. It is understood by [ ] and the Government that this TAR is to be temporary and further that the initial 50 production units will be the subject of an engineering investigation by [ ]

2. The object of the engineering investigation shall be to improve the operational characteristic of the equipment in production, without redesign, on which firm amendments to the equipment specifications may be authorized.

PARAGRAPHS 1 &amp; 2 ABOVE ARE THOSE OF GOVERNMENT REPRESENTATIVE, [ ]

3. Monday and Tuesday, May 24th and 25th, a meeting was held at [ ] to discuss the pilot run evaluation and resolve certain limits to allow [ ] to proceed with production of the subject equipment. Reference is made to the tentative specifications covering the RS-6A as submitted by [ ] and approved with provisions by a letter dated 2 February 1954, signed by [ ] representing the Government.

4. Pilot run data indicated certain relaxations were in order and the following agreements were reached at this meeting. The meeting was attended by [ ] representing the Government, and [ ] representing [ ]

## a. Spec. paragraph 5.3.4 Power Output Transmitter RT-6A

Until such time as a chart for the power output at the various test frequencies can be established, [ ] is to work against the limits as follows: AC operation minimum of 4.5 watts with regulated plate voltage, 400 V DC. Although not resolved at the meeting, it is requested that we be allowed a plate current not to exceed 80 ma in place of the previous 75 ma. DC operation, 3.5 watts with 5.7 V filament input. In order to meet the power output requirement of AC operation, with specified regulated plate voltage, it is necessary to measure the power output from regulated test panel supply source as part of the phasing operation. Therefore, inability of any transmitter to meet the specified power output requirement when working with its own equipment power supply is not to be a basis for rejection regarding power output. It is to be permissible to use the 10 MC low position as the basis for acceptance of units regarding Power Output at 10 MC.

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CRIG COMP 35 OPI 56 TYPE 30  
CRIG CLASS 17 PAGES 3 REV CLASS C Page - 1 -  
JUST 22 NEXT REV 2010 AUTH: HR 70-2

Rejected  
sub to new  
TAR  
coming  
specific points

CONFIDENTIAL

FOR 11/1/54  
132

May 27, 1954

|                          |   |                             |     |
|--------------------------|---|-----------------------------|-----|
| 1. Contractor            |   |                             |     |
| 2. Sub-Contractor        |   |                             |     |
| 3. Equipment             | RS-6A   | Frequency                   | All |
| 10 Purpose               |   |                             |     |
| 11. Approval will affect | <input checked="" type="checkbox"/> Deviation<br><input type="checkbox"/> Approval <input type="checkbox"/> Interpretation <input type="checkbox"/> Information <input type="checkbox"/> Recommendation |                             |     |
| No price                 | No delivery   | No international capability |     |

RS-6A  
 RS6- $\pm 50$ Kc. up to 14 Mc.  
 $\pm 100$ Kc. above to 22 Mc.

(Contd)

## b. Spec. paragraph 4.4.3.5 Receiver RR-6A Dial Calibration

10 degrees  $\alpha$ , arc

Receivers with dial calibration errors not in excess of that which can be corrected by the fiduciary action are to be accepted provided the maximum dial allowable error does not exceed that as previously approved by TAR #20 for the RS-6 equipment. One of the stipulations of these approvals is that ☐ will use the Radio Condenser variable capacitors as supplied to the production line and from the vendor. Data is to be taken for dial calibration for or for a group of 50 equipments for the Government's evaluation. ☐ is authorized to knife gangs after ordinary data taken, if necessary, in order to bring into limits which can be corrected by the fiduciary action and allowable dial calibration error.

## c. Spec. paragraph 4.6.3.1 Receiver RR-6A Signal to Noise Ratio

☐ is to use the present spec. limit of 2.0 uv for AM. It is evident from the pilot run data that the equipments measured and by the method of measurement that the units failed to pass this requirement. It has been established that the high signal to noise ratio of the pilot run is attributing to the 60 cycle hum. Therefore, it will be permissible to record the signal to noise ratio as that actual noise remaining after the deducted measured 60 cycle hum. As an alternate method ☐ is also permitted to measure signal to noise with the use of an auxillary filter to eliminate the 60 cycle hum.

## d. Spec. paragraph 4.6.7.1 Receiver RR-6A Image Rejection Ratio

The present tentative specifications for RS-6A, paragraph 4.6.7.1, sub-paragraphs A, B, and C are to apply. Sub-paragraph D is to be revised to allow a limit of 20 db measured at 22 megacycles. ☐ is to record and submit data for the first 50 units of production to allow resolving the permanent spec. limit by the Government.

## e. Spec. paragraph 4.6.8.1 Receiver Oscillator RR-6A Oscillator Radiation

☐ is to work against radiation limits as follows: High band 40,000 microvolts; low band, 15,000 microvolts. This check is to be a 1% type for production equipments.

## f. Spec. paragraph 4.6.15 Receiver RR-6A Oscillator Frequency Pulling

☐ is to use a limit of 4 KC at 19 ma. This data per 50 units is to be recorded and submitted to the Government for evaluation in order to resolve the permanent spec. limit.

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May 27, 1954

25X1

1. Contractor

2. Sub-Contractor

3. Equipment

RS-6A

10 Purpose

All

Deviation  
Approval

Interpretation



Information



Recommendation

11. Approval will affect:

No Price (Increase - decrease)

No Delivery

No Interchangeability

Action II (Contd)

Navy Inspector Endorsement:

25X1

Action III

Approved by:

For the Government

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